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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,295	09/08/2003	Hsiang Chen	CHEN3584/EM	8679	
23364 7	7590 11/01/2004		EXAMINER		
BACON & THOMAS, PLLC			PAPE, ZACHARY		
625 SLATERS LANE FOURTH FLOOR			ART UNIT	PAPER NUMBER	
ALEXANDRL	A, VA 22314	2835			
			DATE MAILED: 11/01/2004	DATE MAILED: 11/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Annilo and (a)				
	Application No.	Applicant(s)				
Office Action Commons	10/656,295	CHEN, HSIANG				
Office Action Summary	Examiner	Art Unit				
	Zachary M. Pape	2835				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions  - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail - earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be tireply within the statutory minimum of thirty (30) day by will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed /s will be considered timely. It the mailing date of this communication. ID (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 9-8	3- <u>2003</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Th						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application	٦.					
, , , , , , , , , , , , , , , , , , , ,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	•					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	_					
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and	I/or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Exami	ner.					
10)⊠ The drawing(s) filed on <u>08 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. § 119(a	u)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docume		ion No				
3. Copies of the certified copies of the pr						
application from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a li	ist of the certified copies not receive	ed.				
Attachment(s)	•					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-15 6) Other:						

Application/Control Number: 10/656,295

### **DETAILED ACTION**

1. The use of the trademark Mylar ™ has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

## Specification

The specification is objected to because of the following informalities: the specification contains minor spelling errors. As an example Page 2, Line 1 of the specification contains the word "plat". Additionally on line 22 of Page 4 "an rotary axis" should be "a rotary axis". The specification is also missing certain words such as "send" on line 3 of Page 2 between "can" and "data". Finally on Page 5 Line 11 it is believed that "Fig. 1 and Fig. 3" should be correct to read, "Fig. 1 and Fig. 2". These are merely examples. Please review the application for other errors.

Appropriate correction is required.

# Claim Objections

2. Claims 5, and 6 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a

previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Particularly in claim 1, applicant mentions that, "the hidden keyboard is stored in a container". In claim 5, the applicant again recites that the keyboard is stored in a container. In another instance in claim 1 the applicant states, "a back cover having two pivot points on one side at a position on the two-third of the back side of said main system". In claim 6 applicant again recites, "the back cover with two said pivots is located on one side of the two-third of the backside of the said main system".

3. Claims 1 and 2 objected to because of the following informalities: In claim 1, line 11, the phrase "the indentation slot" lacks antecedent basis. It appears the phrase should be changed to "an indentation slot". Additionally in claim 1, line 14, the phrase "said container" lacks antecedent basis. It appears the phrase should be changed to "a container". Finally in claim 2, line 4, the phrase "said pivot axis" lacks antecedent basis. It appears the phrase should be changed to "a pivot axis".

In Claim 1 lines 9-10 the phrase "said back cover taking the two pivots as rotary axis to turn outward for a proper angle" should be deleted since the phrase has been cited earlier in the claim (Lines 5-6).

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 5, & 6 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Lin et al (U.S. Publication # 2004/0056843).

With respect to claim 1, Lin et al. discloses the use of a main system (2) having a touch screen (24) embedded in its front side, a back cover (21) having two pivots (22) on one side of the main system allowing the back cover to rotate outward to an open position (Paragraph 22, Lines 4-5) forming a standing support for the main system (Paragraph 29, Lines 1-3), a hidden keyboard (3) with a hinge located on the hidden keyboard side (4) connected to the indentation slots of the main system, where the hidden keyboard rotates along the rotary axis from a stored position in the container (23) to an outward position toward the touch screen display side of the main system (Paragraph 25, Lines 4-8).

### Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. in view of Goodrich et al. (Patent # 5,375,076). Lin et al. discloses the use of a main system (2) having a touch screen (24) embedded in its front side, a back cover (21) having two pivots (22) on one side of the main system allowing the back cover to rotate outward to an open position (Paragraph 22, Lines 4-5) forming a standing support for the main system (Paragraph 29, Lines 1-3), a hidden keyboard (3) with a hinge located on the hidden keyboard side (4) connected to the indentation slots of the main system (Fig 4), where the hidden keyboard rotates along the rotary axis from a stored position in the container (23) to an outward position toward the touch screen display side of the main system (Paragraph 25, Lines 4-8). Lin et al. further illustrates in Fig 4 that the two indentation slots are connected through the two sides of the pivot axis

Lin et al. fails to disclose the use of a communication line in a spiral shape passing through the pivot axis. Goodrich et al. illustrates in Fig 22 that a communication line (78) passes from the keyboard through the pivot axis of the keyboard and connecting to the main system (20) such that the communication line allows the keyboard, main system, and touch screen to communicate with

each other. (Column 5, Line 67; Column 6, Line 11) It would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the teachings of Lin et al. with the teachings of Goodrich et al. to create a line of communication that is capable of transferring data from the keyboard to the main computer system regardless of the position of the keyboard relative to the main system.

7. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. in view of Goodrich et al. as applied to claim 2 above, and further in view of England (Patent # 6,483,445). Lin et al as modified by Goodrich et al. in claim 2 above teaches the use of a communication line in spiral shape passing through the pivot axis between the pivoting keyboard and the main system. Lin et al. fails to teach the use of a soft, flat, bendable communication line.

England discloses the use of a ribbon cable (Fig 5, 42) as a connection between the display portion, and the keyboard and main system (Column 2, Lines 47-49). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Lin et al. as applied to claim 2 above with the teachings of England. A flat ribbon cable provides the necessary flexibility to allow the main system and the pivoting keyboard to rotate relative to each other and not inhibit the communication between each element.

8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. in view of Goodrich et al. as applied to claim 2 above, and further in view of

Raasch. Lin et al. as modified by Goodrich et al. in claim 2 above teaches the use of a communication line in spiral shape passing through the pivot axis between the pivoting keyboard and the main system. Lin et al. fails to teach the use of a Mylar <sup>TM</sup> cable.

Raasch teaches the use of a Mylar ™ cable (Column 1, Lines 32-35). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the teachings of Lin et al. as applied to claim 2 above with the teachings or Raasch to increase the resistance of the communication line to the environmental elements (i.e. moisture, mold, etc.).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-2201. The examiner can normally be reached Mon. - Thur. & every other Fri. (8:00am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached at 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/656,295

Art Unit: 2835

Page 8

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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